

List of Pages and Lines Exempt from Disclosure

Task Order 36 - Cost Proposal		
Pages 1-17	All lines	Delete the dollar values associated with SAIC's prices, estimated cost, fixed fee and total CLIN amounts. These deletions are essential to prevent a competitor from obtaining access to SAIC confidential financial information critical to our proposal effort. Release of this data could give a competitor an unfair advantage in future procurements by allowing them to underbid SAIC.

Task Order 36 - Task Management Plan		
<u>TMP 36-1, Version 1.0</u> Pages 1 Page 2 Page 3 Pages 4-5 Page 6 Page 7	Lines 6-42 All Lines Lines 1-17 & 30-40 All Lines Lines 1-10 & 23-34 Lines 4-23	These pages describe SAIC's technical approach for accomplishing the NOAA OCS Process Improvement project task. This approach is a result of SAIC's own creative knowledge and experience and is not publicly available. Release of this confidential information would cause substantial harm to SAIC's competitive posture on future procurements by allowing competitors to duplicate this technical approach to SAIC's detriment.
Page 7 Page 8	Lines 32-38 Lines 1-23	Delete the names of SAIC personnel. Release of the names of SAIC personnel would allow competitors the ability to contact these

		personnel for the purpose of pirating them away from SAIC, thereby harming our competitive position.
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ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF PAGES 3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 08 Sep 2008	2. CONTRACT NO. (if any) QA133005CQ1035	6. SHIP TO: a. NAME OF CONSIGNEE See Schedule	
ORDER NO. 0036	4. REQUISITION/REFERENCE NO. NW/WG9500-8-41776	b. STREET ADDRESS	
5. ISSUING OFFICE Address correspondence to: WG950201 NATIONAL DATA BUOY CENTER BUILDING 1007 STENNIS SPACE CENTER, MS 39529		c. CITY	d. STATE
KURT C. WEILBAECHER 228-688-2825 7. TO: 00004157 TIN: 953630868		e. ZIP CODE	
a. NAME OF CONTRACTOR SCIENCE APPLICATIONS DUNS: 148095086		f. SHIP VIA	
b. COMPANY NAME		8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 10260 CAMPUS POINT DRIVE MAIL STOP G2		Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
d. CITY SAN DIEGO	e. STATE CA	f. ZIP 921211578	
9. ACCOUNTING AND APPROPRIATION See Attached Schedule		10. REQUISITIONING OFFICE NOAA - NWS	
BOC:		OBLIGATED AMT: \$305,452.62	

11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. Small <input checked="" type="checkbox"/> b. Other than small <input type="checkbox"/> c. Disadvantaged <input type="checkbox"/> d. Women-owned <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. Emerging small business <input type="checkbox"/> g. Service-disabled veteran-owned			
12. F.O.B. POINT DESTINATION		14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE See Schedule
13. PLACE OF INSPECTION		b. ACCEPTANCE	16. DISCOUNT TERMS 00.00% 0 Days Net 30

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QTY ACCEPT. (g)

18. SHIPPING POINT	19. GROSS SHIPPING WEIGHT	20. INVOICE NO.	17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:			
a. NAME NATIONAL DATA BUOY CENTER			US\$ 305,452.62
b. STREET ADDRESS (or P.O. Box) BUILDING 1007			
c. CITY STENNIS SPACE CENTER	d. STATE MS	e. ZIP CODE 39529	

22. UNITED STATES OF AMERICA BY (Signature) <i>Kurt C. Weilbaeche</i>	23. NAME (Typed) KURT C. WEILBAECHER (TITLE CONTRACTING/ORDERING OFFICER)	228-688-2825
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ORDER FOR SUPPLIES OR SERVICES - Continuation

PAGE 2 OF PAGES 3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 08 Sep 2008 CONTRACT NO. (if any) OA133005CO1035 ORDER NO. 0036

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QTY ACCEPT. (g)
0001	<p>06-TOS-36 CLIN 0001 IOOS-NOS BATHYMETRY AND CHARTING ISO9000 COMPLIANT SUPPORT IN ACCORDANCE WITH THE ATTACHED TASK MANAGEMENT PLAN (TMP), DATED SEPTEMBER 15, 2008 THROUGH MARCH 11, 2009.</p> <p>COST PLUS FIXED FEE FIRM FIXED PRICE</p> <p>Accounting and Appropriation Data: 14.08.F8K6BMB.P00.0083.010301000.100900 0100000000.25130000.000000 \$ 21,570.21 14.08.F8M5J14.PK4.0083.040401005.2006000 095000000.25130000.000000 \$ 170,000.00 DELIVERY DATE: 03/04/2009 SHIP TO: NATIONAL DATA BUOY CENTER ATTN: PROPERTY OFFICER BUILDING 3202 STENNIS SPACE CENTER, MS 39529-6000 FOB: Destination</p>	1	EA	191,570.21	191,570.21	
0002	<p>IOOS-NOS PRINT ON DEMAND NAUTICAL CHART SUPPORT ACTIVITY IN ACCORDANCE WITH ATTACHED TASK MANAGEMNT PLAN (TMP), DATED SEPTEMBER 15 2008 THROUGH MARCH 31, 2009.</p> <p>FIRM FIXED PRICE-LEVEL OF EFFORT</p> <p>Accounting and Appropriation Data: 14.08.F8K6BMB.P00.0083.010301000.100900 0100000000.25130000.000000 \$ 13,882.41 14.08.F8K6BMB.P00.0083.010301000.200600 0095000000.25130000.000000 \$ 100,000.00 DELIVERY DATE: 06/30/2010 SHIP TO: NATIONAL DATA BUOY CENTER ATTN: PROPERTY OFFICER BUILDING 3202 STENNIS SPACE CENTER, MS 39529-6000 FOB: Destination</p>	1	JB	113,882.41	113,882.41	



Science Applications
International Corporation
From Science to Solutions™

Document Number: TMP 36-1

Version Number: 1.0

Issue Date: 8/19/2008

Technical Management Plan

Title: NOAA OCS Process Improvement – IOOS-NOS
Bathymetry and Charting ISO9000 Compliant Support

ORIGINATOR:

Date Signed:

TASK ORDER MANAGER:

Date Signed:

PROGRAM MANAGER:

Date Signed:

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Page 1 of Pages 32. Amendment/Modification No.
00013. Effective Date
Sep 15, 20084. Requisition/Purchase Req. No.
NWWG9500-8-48931

5. Project No. (if applicable)

6. Issued By
NATIONAL DATA BUOY CENTER
BUILDING 1007
STENNIS SPACE CENTER, MS 39529

Code WG950201

7. Administered By (If other than Item 6)
SEE BLOCK 6

Code

KURT C. WEILBAECHER 228-688-2825

8. Name and Address of Contractor (No., Street, County, and Zip Code)

SCIENCE APPLICATIONS INTERNATIONAL CORPO Vendor ID: 00004157
10260 CAMPUS POINT DRIVE DUNS: 148095086
MAIL STOP G2
SAN DIEGO CA 921211578 CAGE: 0T5L1

(X)

9A. Amendment of Solicitation No.

9B. Date (See Item 11)

10A. Modification of Contract/Order No.
QA1330-05-CQ-1035 003610B. Date (See Item 13)
Sep 8, 2008

Code

Facility Code

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting and Appropriation Data (if required)

See Schedule \$ US 0.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X) A. This change order is issued pursuant to: (Specify authority) The changes set forth in item 14 are made in the Contract Order No. in item 10A.

B. The above numbered Contract/Order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.)
Set fourth item 14, pursuant to the authority of FAR 43.103 (b)X C. This supplemental agreement is entered into pursuant to authority of:
FAR 52.243-2 CHANGES

D. Other (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. Description of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

1. The purpose of this modification is to create two CLINS (0003 and 0004) to cover the Other Direct Costs (ODCs) associated with this Task Order.

a. Change CLIN 0001 from \$191,570.21 to read \$158,565.69, a net decrease of \$33,004.52. Change the accounting as follows:

Accounting: 14.08.F8MJ14.PK4.0083.040401005.200600095000000.25130000.000000 \$136,995.48

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. Name and Title of Signer (Type or Print)

BONNIE BARNUM
SR. Contracts Representative

16A. Name and title of Contracting Officer (Type or Print)

KURT C. WEILBAECHER 228-688-2825
Contracting Officer
kurt.weilbaecher@noaa.gov

15B. Contractor/Officer

(Signature of person authorized to sign)

15C. Date Signed

9/15/08

16B. United States of America

(Signature of Contracting Officer)

16C. Date Signed

Sep 15, 2008

NSN 7540-01-152-8070

PREVIOUS EDITIONS UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)

Prescribed by GSA FAR (48 CFR) 53.243

b. Change CLIN 0002 from \$113,882.41 to read \$106,333.32, a net decrease of \$7,549.09. Change the accounting as follows:

Accounting: 14.08.F8K6BMB.P00.0083.010301000.1009000100000000.25130000.000000 \$6,333.32

c. Add CLIN 0003 in the amount of \$33,004.52.

Accounting: 14.08.F8MJ14.PK4.0083.040401005.2006000950000000.25130000.000000 \$33,004.52

d. Add CLIN 0004 in the amount of \$7,549.09.

Accounting: 14.08.F8K6BMB.P00.0083.010301000.1009000100000000.25130000.000000 \$7,549.09

e. This change is done at no additional cost to the Government and all other terms and conditions remain unchanged.

SCHEDULE

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
0001	<p>06-TOS-36 CLIN 0001 IOOS-NOS BATHYMETRY AND CHARTING ISO9000 COMPLIANT SUPPORT IN ACCORDANCE WITH THE ATTACHED TASK MANAGEMENT PLAN (TMP), DATED SEPTEMBER 15, 2008 THROUGH MARCH 11, 2009.</p> <p>FIRM FIXED-PRICE LEVEL OF EFFORT</p> <p>Accounting and Appropriation Data: 14.08.F8K6BMB.P00.0083.010301000.100900010 0000000.25130000.000000 US\$ 21,570.21 14.08.F8M5J14.PK4.0083.040401005.2006000095 0000000.25130000.000000 US\$ 136,995.48</p>	1	EA	158,565.69	158,565.69
0002	<p>IOOS-NOS PRINT ON DEMAND NAUTICAL CHART SUPPORT ACTIVITY IN ACCORDANCE WITH ATTACHED TASK MANAGEMNT PLAN (TMP), DATED SEPTEMBER 2 2008 THROUGH MARCH 31, 2009.</p> <p>FIRM FIXED-PRICE LEVEL OF EFFORT</p> <p>Accounting and Appropriation Data: 14.08.F8K6BMB.P00.0083.010301000.100900010 0000000.25130000.000000 US\$ 6,333.32 14.08.F8K6BMB.P00.0083.010301000.200600009 5000000.25130000.000000 US\$ 100,000.00</p>	1	JB	106,333.32	106,333.32
0003	<p>06-TOS-36 CLIN 0001 IOOS-NOS BATHYMETRY AND CHARTING ISO9000 COMPLIANT SUPPORT IN ACCORDANCE WITH THE ATTACHED TASK MANAGEMENT PLAN (TMP), DATED SEPTEMBER 15, 2008 THROUGH MARCH 11, 2009.</p> <p>ODCs</p> <p>COST PLUS FIXED-FEE</p> <p>Accounting and Appropriation Data: 14.08.F8M5J14.PK4.0083.040401005.2006000095 000000.25130000.000000 US\$ 33,004.52</p>	1	EA	33,004.52	33,004.52
0004	<p>IOOS-NOS PRINT ON DEMAND NAUTICAL CHART SUPPORT ACTIVITY IN ACCORDANCE WITH ATTACHED TASK MANAGEMNT PLAN (TMP), DATED SEPTEMBER 2, 2008 THROUGH MARCH 31, 2009.</p> <p>ODCs</p> <p>COST PLUS FIXED-FEE</p> <p>Accounting and Appropriation Data: 14.08.F8K6BMB.P00.0083.010301000.100900010</p>	1	EA	7,549.09	7,549.09

SCHEDULE

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
	0000000.25130000.000000 US\$ 7,549.09				

Task Order Statement

Title of Task Order:	06-TOS-36 CLIN 00002 IOOS-NOS Print on Demand Nautical Chart Support Activity
NDBC Branch:	OPS 5X1 – NDBC/NOS Office Of Coast Survey Bathymetry Support
Performance Period:	7/01/2008 – 6/30/2010
Task Order Type: (FFP or CPFF)	FP-LOE
Purpose: (How this TO relates to NDBC's Mission or What Problem needs to be solved)	<p><i>The NOAA nautical chart is an important information synthesizing and distribution mechanism for NOAA's integrated ocean observing system (IOOS) data sets. NOAA charts are the only comprehensive, base-map set of the U.S.' marine environment. Nearly all ocean data collected by NOAA is, at one time or another, shown over a nautical chart.</i></p> <p><i>Nautical charts are also the fundamental tool of marine navigation. NOAA nautical charts are mandatory on the commercial ships that carry America's foreign commerce. They directly support NOAA's goal to "promote safe navigation and the Department of Commerce's goal of promoting U.S. competitiveness in the global marketplace.</i></p> <p><i>The Office of Coast Survey (OCS), NOAA, developed and produces official Print on Demand (POD) versions of the nautical charts. Disseminating information "on demand" is a critical element of NOAA's data/information customer delivery plan. After 8 years of operation, the Print-on-Demand technology developed by NOAA needs to be refreshed and updated to reflect changes in technology and in the NOAA POD business model.</i></p> <p><i>The purpose of this task is to provide technical expertise in preparation for this technology refresh.</i></p>

Background:	<p><i>Nautical charts are a fundamental tool of marine navigation. Their critical information provides for safe and efficient use of our waterways, and for protection of our marine environment. NOAA nautical charts are mandatory on the commercial ships that carry America's foreign commerce. NOAA's charts are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. They directly support NOAA's goal to "promote safe navigation and the Department of Commerce's goal of promoting U.S. competitiveness in the global marketplace.</i></p> <p><i>Further, the nautical chart is an important information synthesizing and distribution mechanism for NOAA's integrated ocean observing system (IOOS) data sets. NOAA charts are the only comprehensive, base-map set of the U.S.' marine environment. Nearly all ocean data collected by NOAA is, at one time or another, shown over a nautical chart.</i></p> <p><i>The Office of Coast Survey (OCS), NOAA, developed and produces official Print on Demand (POD) versions of the nautical charts. Print-on-Demand technology allows NOAA to maintain a digital inventory of its charts, to keep these charts continuously up-to-date, and to customize the charts with specialized information. . Whenever a printed copy of a chart is needed, it is printed at that time with both up-to-date information and with any desired customization. The POD charts have proven to be an enhancement to the safety of navigation, and a beneficial tool for distributing ocean observation data.</i></p> <p><i>After 8 years of operation, the Print-on-Demand technology developed by NOAA needs to be refreshed and updated to reflect changes in technology and in the NOAA POD business model. Several technical barriers exist. The purpose of this contract is to provide technical expertise to find technical alternatives for overcoming these barriers. NOAA will then prepare a POD 2 system architecture, taking advantage of the information developed here.</i></p>
Scope of Effort:	<p>BUSINESS GOALS AND PERCEIVED TECHNICAL BLOCKING ISSUES</p> <ol style="list-style-type: none"> <i>1. Continue to provide up-to-date nautical charts as is presently done without interrupting service, the agents, or POD PRINTING AGENT.</i> <p><i>Blocking Issues:</i></p> <ol style="list-style-type: none"> <i>a. Ordering interface</i>

	<p>b. <i>POD PRINTING AGENT contract expiration/exclusivity</i></p> <p>2. <i>Support a new, simpler, more inclusive business model. Increase number of participating agents and incentivized sellers. End exclusivity. New model needs to increase distribution and support the expansion of the product line.</i></p> <p><i>Blocking technology:</i></p> <ul style="list-style-type: none"> a. <i>File distribution</i> b. <i>Print manager</i> c. <i>Print time</i> d. <i>File management, particularly of composed files</i> <p>3. <i>Increase sales and use of charts by increased availability and decreased price. (Note: Increased distribution is a surrogate for increased safety and efficiency.)</i></p> <p><i>Blocking issues:</i></p> <ul style="list-style-type: none"> a. <i>Simplicity of use so it can be adopted by more agents in their stores</i> b. <i>Use of Agent Agreement</i> <p>4. <i>Serve DoD, Coast Guard, and NOAA directly with commenting-enabled PDF to a single site for redistribution. Alternatively, use the Agent Agreement and technology supplied to chart agents.</i></p> <p>5. <i>Eliminate new editions;</i></p> <p><i>Blocking issues:</i></p> <ul style="list-style-type: none"> a. <i>Traditional practice and internal policy</i> b. <i>Coast Guard's inspection for compliance with carriage regulations</i> c. <i>What are NTMs issued against?</i> <p>6. <i>Discontinue lithographic printing and the relationship with FAA to avoid possible printing charges from appropriated funds, improve product, and increase volume for POD agents</i></p> <p><i>Blocking issues:</i></p> <ul style="list-style-type: none"> a. <i>Traditional practice</i> b. <i>What's "corrected" against via NTM without N/E's?</i> c. <i>44 USC 1307</i>
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7. *Expand the number of niche products serving constituent segments*

Blocking technology:

- a. *Database design (or other metadata storage method)(or preservation of Order.XML) as a means of specifying individual instances of yet-to-be-defined products*

8. *Replace NC.gov functionality for greater reliability, reduced maintenance, simplified operations, and to better match the MCD skill set.*

Blocking technology:

- a. *Database elimination, or implement direct updating.*
- b. *Broader use of subscription engine*
- c. *Ordering method (or leave to agents)*

9. *Replace chart assembler for speed, greater reliability, reduced software maintenance, and to better match the MCD skill set. Bring in-house.*

Blocking technology:

- a. *File format distributed*
- b. *How/when to reassemble each of 5,000 charts/versions*
- c. *NTM update status block*
- d. *Assembly speed*

10. *Turn POD into a production system with better documentation, manuals, training. Make the system more robust and reduce software maintenance costs. Integrate with NOAA's new production system.*

Blocking issues:

NOAA's new production system is not ready to specify this interface and files to be provided

TECHNICAL BARRIERS

1. *Chart updating alternatives – How to process into the distribution format all charts each week.*
 - 1.1. *Issue – Each chart changes each week, even if it's only the text indicating the "updated through" and "cleared" dates. Completing recompilation of each chart every week in a*

	<p><i>timely manner (within 24 hours of the USCG District being cleared) is uncertain.</i></p> <p><i>1.2. Issue – Once recomposed, charts must be translated into the distribution format, e.g. a ripped file. Time, processing machines, and file management are issues.</i></p> <p><i>1.3. Required Work</i></p> <p><i>1.3.1. Measure time to reprocess using brute force technique. Hypothesize and test time-reducing techniques. Document management procedures and SW that would be required for production use.</i></p> <p><i>1.3.2. Measure time to reformat. Hypothesize and test time-reducing techniques. Document management procedures and SW that would be required for production use.</i></p> <p><i>1.3.3. Identify and test alternative reprocessing schemes other than brute force. Quantify performance. Document issues.</i></p> <p><i>1.3.4. Identify and test time-reducing product redesign alternatives.</i></p> <p><i>2. File distribution alternatives – How to distribute and manage the plotable files. We can distribute plot-ready files, distribute files that require further processing, e.g. assembly and/or ripping, or plot from Silver Spring at remote agent's sites. All methods have potentially fatal shortcomings.</i></p> <p><i>2.1. Issue – Distributing plot-ready files requires full-suite reprocessing each week, remote file management, and significant transmission bandwidth.</i></p> <p><i>2.2. Issue – Remote processing is the POD PRINTING AGENT method that has demonstrated suitable performance, but requires more remote support, e.g. of NOAA software at an agent's site, and offers less control of what's happening.</i></p> <p><i>2.3. Issue – Remote plotting from Silver Spring gives maximum control, but speed, reliability, and technology are unknown.</i></p> <p><i>2.4. Required Work</i></p> <p><i>2.4.1. Quantify plot-ready file distribution parameters, e.g. time to distribute vs. bandwidth. Document issues.</i></p> <p><i>2.4.2. Design alternative remote processing scenarios. Quantify performance parameters. Document issues.</i></p> <p><i>2.4.3. Develop a method and test remote printing from Silver Spring. Quantify parameters. Document issues.</i></p> <p><i>3. NC.gov and database alternatives – How to create and keep updated all data needed to produce the weekly chart files.</i></p>
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| | <p>3.1. <i>Issue – NC.gov and its supporting software is no longer reliable nor flexible enough to support POD 2. Experience with POD 1.0 should be incorporated in new support software (and databases). Order.XML generation is inadequate.</i></p> <p>3.2. <i>Issue – Databases need to be eliminated and enhanced use of MCD databases should be incorporated.</i></p> <p>3.3. <i>Issue – USB interface to initiate and control processing needs evolution.</i></p> <p>3.4. <i>Required Work</i></p> <p>3.4.1. <i>Redesign internal business process and interface.</i></p> <p>3.4.2. <i>Perform analysis on POD 2 software incorporating lessons and changes indicated from POD 1.</i></p> <p>3.4.3. <i>Redesign for minimum database and software maintenance.</i></p> <p>4. <i>Print speed issues and plotter control – Match or beat OG's plot speed. Provide an agent's interface.</i></p> <p>4.1. <i>Issue – We have insufficient control over the specified plotter to match OG's plot time, to perform dynamic assembly, and to control the plotter remotely should that be necessary.</i></p> <p>4.2. <i>Issue – Remote printing agents will need a plotter interface appropriate for their method of doing business.</i></p> <p>4.3. <i>Issue – We don't know of a suitable paper.</i></p> <p>4.4. <i>Required Work</i></p> <p>4.4.1. <i>Experiment with designated plotter to eliminate startup and shutdown dwell times.</i></p> <p>4.4.2. <i>Experiment with designated plotter to document speed/quality tradeoffs.</i></p> <p>4.4.3. <i>Experiment with third party plotter control software and file format to increase plot speed.</i></p> <p>4.4.4. <i>Analyze interface requirements.</i></p> <p>4.4.5. <i>Find and test suitable papers.</i></p> <p>5. <i>Business Processes – Design new business process.</i></p> <p>5.1. <i>Issue – Eliminate need for POD PRINTING AGENT or similar partner from business process and open to more partners</i></p> <p>5.2. <i>Issue – Distribution of POD among recreational chart agents is inadequate</i></p> <p>5.3. <i>Issue – Support NGA and USCG directly</i></p> <p>5.4. <i>Issue – Accommodate increased security protocols demanded by NOS</i></p> <p><i>Required Work – Redesign external business process.</i></p> |
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Tasks:	<p>Contractor will do the research, technical evaluation, and consultation with experts to write a report that provides alternate technical solutions to the technical barriers described in the above section titled "TECHNICAL BARRIERS". At a minimum, the contractor shall address and propose solutions for barriers 1, 2, and 4. Other technical barriers and blocking issues are provided to furnish the context in which the contractor's technical solutions must function. The use of COTs is preferred as a means of overcoming technical barriers.</p>
Assumptions/ Constraints (Security, Safety, Accessibility, etc...)	All work will be performed in compliance with applicable federal, state, local laws or regulations, NOAA, NOS, and ALL applicable NOS instructions, directives, or procedures.
GFE/GFI:	Sample data is available. Access to the first generation of POD is available. Frequent interaction and collaboration with the OCS' representative is available and encouraged.
Program Objectives/ Possible Performance Measures:	The contractor is required to provide a list of proposed measures for this task order with goals for level of service and the outcomes for achieving/not achieving those goals.
Inspection/Acceptance:	<p>Periodic and final inspection and acceptance of all work performed, reports generated, and other deliverables will be conducted by the COTR or other designee. The OCS representative will be:</p> <p>David B. Enabnit Technical Director (N/CSx2) Office of Coast Survey, NOAA Room 6128 1315 East-West Highway Silver Spring, MD 20910 USA</p> <p>(voice) 301-713-2770 x132 (fax) 301-713-4019 (e-mail) Dave.Enabnit@noaa.gov</p>
Travel:	Travel may be required to support this task order.
Required information and/or submittals to be included in the required Task Management Plan (TMP):	<p>1. Task Management Plan addendum for TO 36 is required showing</p> <p>a. A Clearly Defined Table of Deliverables with corresponding due dates.</p> <p>b. Work Breakdown Structure (WBS).</p> <p>c. Cost per Schedule of Supplies/Services and/or major components</p>

Technical Management Plan

Title: NOAA OCS Process Improvement – IOOS-NOS
Bathymetry and Charting ISO9000 Compliant Support

ORIGINATOR:

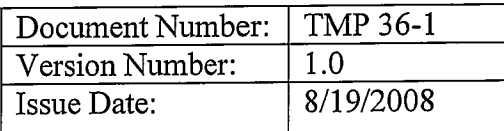
Date Signed:

TASK ORDER MANAGER:

Date Signed:

PROGRAM MANAGER:

Date Signed:

[illegible]

 Science Applications International Corporation <i>From Science to Solutions™</i>	Document Number:	TMP 36-1
	Version Number:	1.0
	Issue Date:	8/19/2008

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- APPENDIX A – Work Breakdown Structure and Schedule**
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	Version Number:	1.0
	Issue Date:	8/19/2008

PERIOD OF PERFORMANCE: 15 September, 2008 – 11 March, 2009

1.0 Overview

SAIC's Marine Science and Technology Division (MSTD) is pleased to submit this proposal in response to NOAA *Task Order 08-TOS-36 CLIN 00001 IOOS-NOS Bathymetry and Charting ISO9000 Compliant Support.*

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1.1 Scope

The proposed effort to fulfill CLIN 00001 of this Task Order is presented in two phases.

- The first phase will evaluate the readiness of the existing OCS processes to comply with the ISO9001 standard, identify where those processes are lacking, and present a plan, with estimated costs, capable of bringing all OCS divisions into full compliance.
- The second phase will be defined by that plan and, if approved by OCS, will go forward to support OCS in becoming fully compliant with ISO9001. This second phase is not an ISO9001 certification but will set the stage for a formal ISO9001 pre-assessment audit.

PHASE 1

[REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1.2 Statement of Work

08-TOS-36 CLIN 00001 IOOS-NOS BATHYMETRY AND CHARTING
ISO9000 COMPLIANT SUPPORT is incorporated as Appendix D.

1.3 Management Approach

1.4 Supporting Documents and References

None

2.0 Implementation Plan

2.1 Work Breakdown Structure

See Appendix A for the work breakdown structure.

2.2 Performance Specification and Metrics

[REDACTED]

[REDACTED]

[REDACTED]

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2.3 Materials, Tools and Equipment

None.

2.4 Assumptions and/or Deviations

[REDACTED]

3.0 Milestones and Deliverables

3.1 Program Performance Schedule

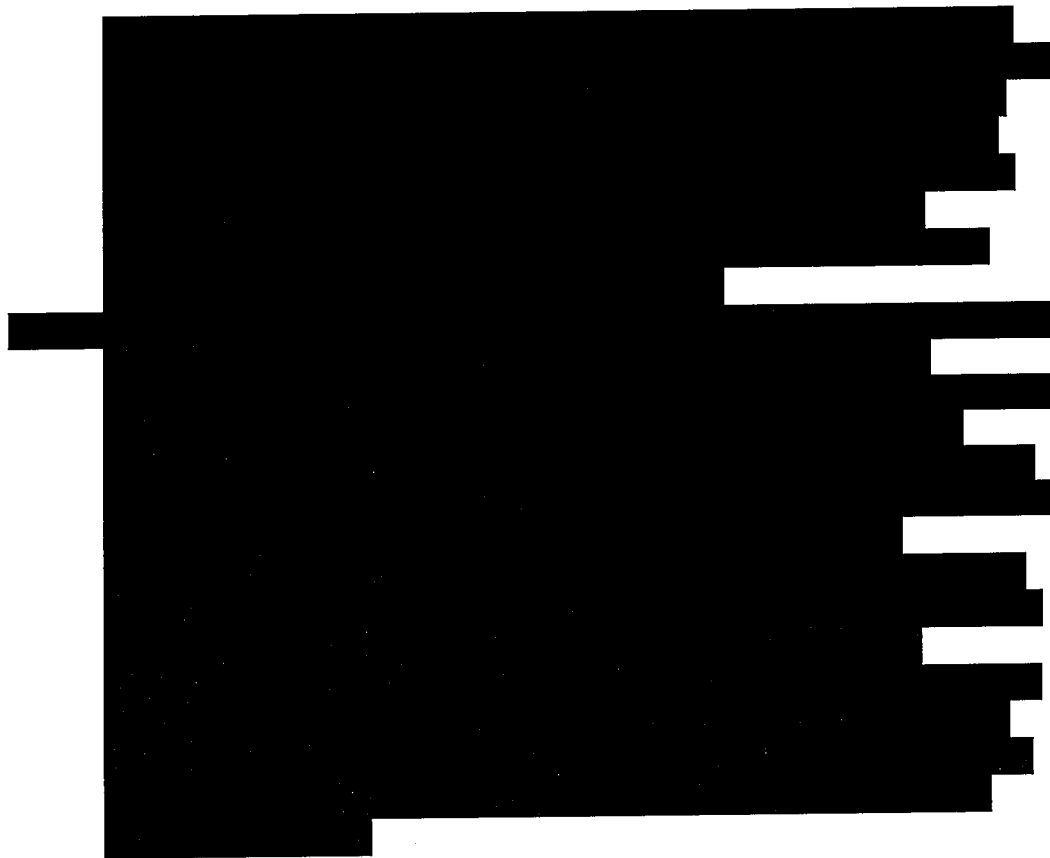
See Appendix A for the program performance schedule.

3.2 Deliverables

See Appendix C for the Deliverables/Submittals Table.

4.0 Key Personnel

[REDACTED]




5.0 Cost Proposal

See the attached cost proposal. SAIC's cost proposal is based on the following:

1. SAIC has proposed labor costs in accordance with the subject contract Section B.6 Rate Schedule for Contract Year 4.
2. All assumptions included within this TMP.
3. All travel will be in accordance with the Federal Travel Regulations.
4. The negotiated/funded period of performance is beginning from September 15, 2008 through March 11, 2009.

5.1 Terms and Conditions

Terms and conditions governing this Task Order will be those currently in effect for Contract No. QA1330-05-CQ-1035.

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5.2 Contract Type

This task order is a hybrid contract type. SAIC has proposed a Fixed Price Level of Effort (FF-LOE) for labor, Other direct costs, to include travel, will be reimbursed on a CPFF basis.

6.0 Payment Terms

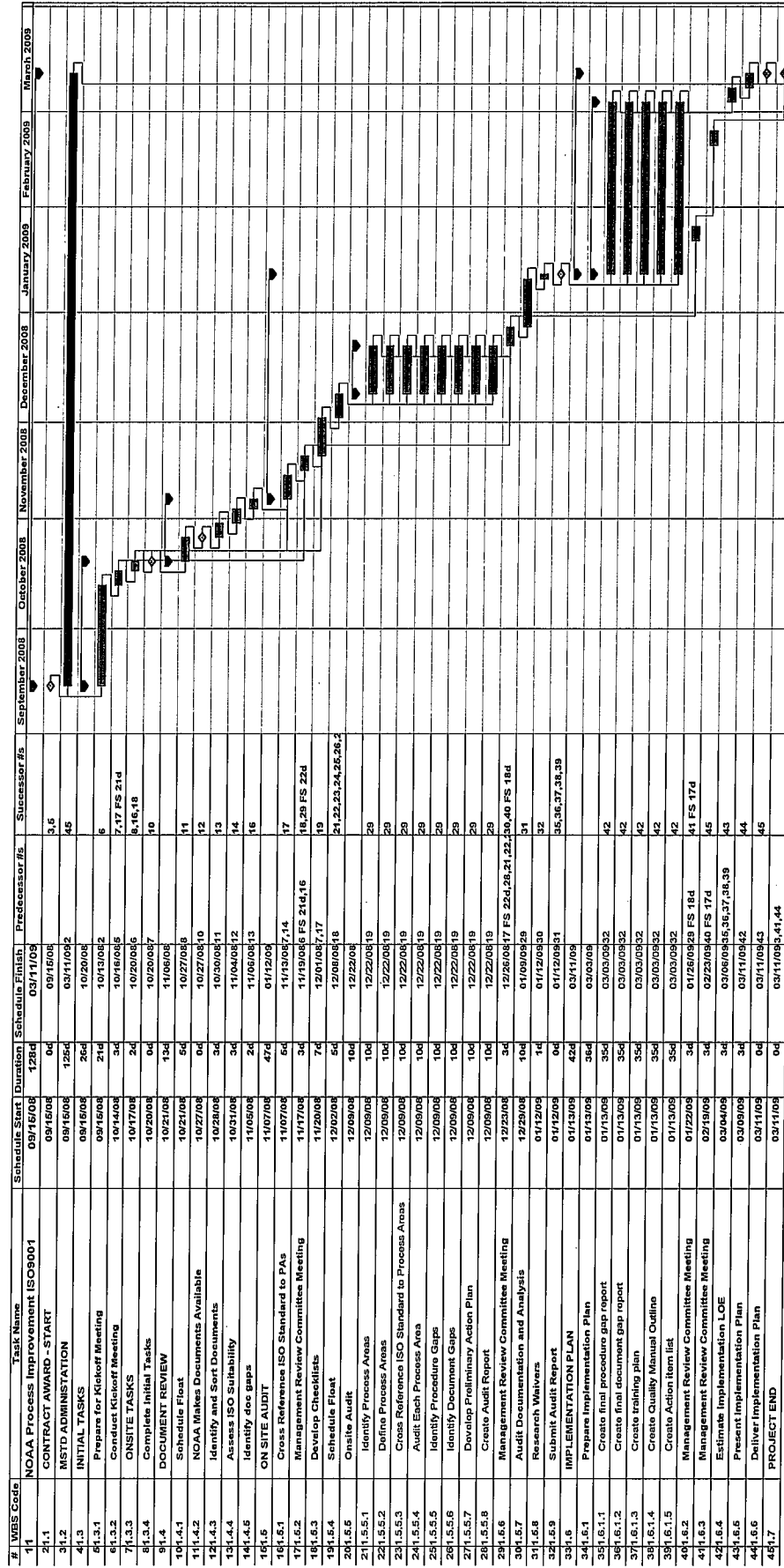
- For the Firm Fixed Price elements of this task order, invoices shall be submitted upon completion of each SAIC accounting period. This consists of 13 equal payments over a one year period of performance. Periods of less than one year shall be prorated in accordance with the period of performance and the SAIC accounting periods covered. For FP-LOE efforts, SAIC will invoice for hours worked during the accounting period at the FP-LOE rates specified in the pricing schedule. Payment shall be made within 30 days.
- For the Cost Plus Fixed Fee elements of this task order, invoices shall be submitted upon completion of each SAIC accounting period. Payment shall be made within 30 days.



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APPENDIX A – WORK BREAKDOWN STRUCTURE and SCHEDULE

NOAA PROCESS IMPROVEMENT ISO 9001





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APPENDIX B - SCHEDULE

SEE APPENDIX A FOR SCHEDULE

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APPENDIX C – DELIVERABLES/SUBMITTALS TABLE

Deliverables/Submittals	Due Date	Acceptance Criteria
Task 1.5 On-Site Audit)		
On-site Audit Report	1/12/2009	Upon on-time delivery
Process Area Description Document for each Process Area	1/12/2009	Upon on-time delivery
Preliminary Procedure Gap Report	1/12/2009	Upon on-time delivery
Preliminary Document Gap Report	1/12/2009	Upon on-time delivery
Preliminary Action Plan	1/12/2009	Upon on-time delivery
Task 1.7 (Implementation Plan)		
Implementation Plan	3/11/2009	Upon on-time delivery
Final Procedure Gap Report	3/11/2009	Upon on-time delivery
Final Document Gap Report	3/11/2009	Upon on-time delivery
Training Plan (Management/Rank-and-File)	3/11/2009	Upon on-time delivery
Quality Manual Outline	3/11/2009	Upon on-time delivery
Final Action Item List	3/11/2009	Upon on-time delivery
Technical and Cost Proposal for Phase 2	3/11/2009	Upon on-time delivery

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APPENDIX D Task Order Statement – TO36 CLIN 00001, IOOS-NOS BATHYMETRY AND
CHARTING ISO9000 COMPLIANT SUPPORT

Title of Task Order:	08-TOS-36 CLIN 00001 IOOS-NOS BATHYMETRY AND CHARTING ISO9000 COMPLIANT SUPPORT
NDBC Branch:	OPS 5X1 – NDBC/NOS Office Of Coast Survey Bathymetry Support
Performance Period:	7/01/2008 – 6/30/2010
Task Order Type: (FFP or CPFF)	FP-LOE
Purpose: (How this TO relates to NDBC's Mission or What Problem needs to be solved)	To provide support for Integrated Ocean Observing System (IOOS) key observing variable of Bathymetry. Bathymetry is prioritized as one of the top 20 IOOS required variables. Bathymetry is required for NOAA to issue accurate and timely coastal inundation forecasts. Support to be provided to NOAA's National Ocean Service in planning for, acquiring and disseminating and publishing Bathymetry and Charting Data in accordance with the principles of ISO 9001. Bathymetry is the physical ocean parameter complementing National Weather Service (NWS) National Observing System (NOOS) Program data to complete NOAA's Integrated Ecosystem Analysis (IEA), and to provide comprehensive coastal inundations warnings and forecasts under the NOAA Programs of IOOS, LFW, and CEO.
Background:	<p>The Office of Coast Survey's (OCS) streamlining and process improvement efforts have revealed the need for improved workflow analysis, documentation, and systems oversight for several key OCS function areas. Pursuing additional structure and objective tools in these areas will also be a first step in meeting ISO 9001 quality principles of process approach (with particular attention paid to system interfaces), systems approach to management, continual improvement, and a factual approach to decision making.</p> <p>OCS, a component of the National Oceanic and Atmospheric Administration's (NOAA) National Ocean Service, is known for the useful and necessary navigational products which are required for the safe and efficient maritime commerce in and out of our Nation's ports.</p> <p>OCS is composed of four Divisions: the Marine Chart Division (MCD), Hydrographic Surveys Division (HSD), Navigation</p>

Services Division (NSD), and the Coast Survey Development Laboratory (CSDL). Both MCD and HSD already have made significant progress in documenting their present workflow.

MCD is responsible for producing and maintaining a suite of over 1000 nautical charts that cover the coastal waters of the U.S., the Great Lakes, and some U.S. territories. These charts, which are recognized as “official” by the U.S. Coast Guard, are produced in both paper and electronic format.

HSD is responsible for acquiring hydrographic (depth and feature) data in U.S. waters in support of NOAA’s nautical charting program. This is accomplished using a mix of NOAA-owned and contract hydrographic survey vessels. HSD establishes standards, creates project instructions, and evaluates the adequacy of survey data collected by field units.

NSD provides a wide variety of navigation services to help insure safe and reliable marine transportation. Operating in a 365-days a-year environment, NSD Navigational Response Teams conduct short-term (fast response) hydrographic surveys in areas that need them most. NSD also has a group of nine Navigation Managers located at key coastal locations throughout the country. Navigation Managers serve as Coast Survey’s ambassadors to the maritime community. NSD is also responsible for producing the U.S. Coast Pilot.

The Coast Survey Development Laboratory (CSDL) explores, plans, and manages the development and improvement of charting, hydrographic, and oceanographic technologies and techniques used by OCS and NOAA to provide products and services for the coastal marine community, especially in support of safe and efficient navigation and sustainable healthy coasts. The lab applies advanced techniques and technology to surveying, charting, and ocean and estuary hydrodynamic modeling requirements and initiates development programs necessary to meet those needs.

OCS partners with other internal NOAA navigation services offices, including the Center for Operational Oceanographic Products and Services (CO-OPS) and the National Geodetic Survey (NGS). CO-OPS provides hydrographic survey support to OCS by supplying input about vertical control requirements, tidal zoning schemes, and approved time-series water level data. NGS provides shoreline data of OCS survey areas, based on high resolution aerial

	<p>photogrammetry.</p> <p>OCS maintains a workforce composed of approximately 225 full-time federal employees and 20 NOAA Corps Officers. The workforce is primarily made up cartographers, physical scientists, computer specialists, and other support personnel. The majority of OCS personnel are located at NOAA headquarters in Silver Spring, Maryland. Branch offices, staffed with cartographers for reviewing hydrographic surveys, are located in Norfolk and Seattle.</p> <p>The OCS Web Pages can be found at: http://www.nauticalcharts.noaa.gov/</p>
Scope of Effort:	<p>Provide a road map and assistance to bring NOAA's Charting and Bathymetry into ISO 9001 compliant processing.</p> <ol style="list-style-type: none"> 1) analyze and document system-wide workflow, making use of existing legacy documents, 2) provide consultation and assistance in developing a plan for OCS to become ISO 9001 compliant, identifying key areas to prioritize, 3) provide cost estimate, when required, for executing the plan for OCS to become ISO 9001 compliant, and execute the plan as required, 4) develop or apply appropriate process oversight software tools to manage quality throughout OCS, and 5) identify dependencies and linkages to other navigation services NOAA internal partners and develop processes to manage the interface. <p>Scope of Task Order should address the topics and activities described in the technical "White Paper" (Attached) that discusses current ISO practices provided by the contractor to NOAA NOS Office of Coast Survey.</p>



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<p>Tasks:</p>	<ol style="list-style-type: none"> 1) review system wide workflow making use of existing legacy documents and established government procedures (e.g., HR policies). Provide a gap analysis of workflow and business practices, 2) develop a phased approach plan to ISO 9001 certification with defined next tasks, which may include training, configuration management, etc. 3) provide cost estimate for OCS to become ISO 9001 compliant, 4) execute the plan, as required, 5) develop or apply appropriate process oversight software tools to manage quality throughout OCS, as required. 6) identify dependencies and linkages to other navigation services NOAA internal partners and develop processes to manage the interface, as required.
<p>Assumptions/ Constraints (Security, Safety, Accessibility, etc...)</p>	<p>NTSC shall have in place a safety and environment safety program (this function is covered under another Task Order). All work will be performed in compliance with applicable federal, state, local laws or regulations, NASA, NOAA, NWS, and ALL applicable NOS CSDL instructions, directives, or procedures.</p>



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GFE/GFI:	GFE/GFI is available to support this effort. The Government will make available computers, lab and office space as required. The OCS Quality Management team will actively participate and subject matter experts will be identified and made available.
Program Objectives/ Possible Performance Measures:	The Government requires this task order have performance-based measures that align with the Statement of Objectives and Program Goals contained in this solicitation. The contractor is required to provide a list of proposed measures for this task order with goals for level of service and the outcomes for achieving/not achieving those goals.
Inspection/Acceptance:	Periodic and final inspection and acceptance of all work performed, reports generated, and other deliverables will be conducted by the COTR or other designee. An OCS representative to be determined will be identified.
Travel:	Travel may be required to support this task order.
Required information and/or submittals to be included in the required Task Management Plan (TMP):	<ol style="list-style-type: none">1. Task Management Plan addendum for TO 37 is required showing<ol style="list-style-type: none">a. A Clearly Defined Table of Deliverables with corresponding due dates.b. Work Breakdown Structure (WBS).c. Cost per Schedule of Supplies/Services and/or major components

Task Order Statement - TOS36 - NWS/NDBC - NOS/IOOS PMO/Office of Coast
Survey/CSDL

Title of Task Order:	08-TOS-36 CLIN NOAA IOOS SUPPORT
NDBC Branch:	OPS 5X1 - NWS/NDBC - NOS/IOOS PMO/Office Of Coast Survey/CSDL ...
Performance Period:	7/01/2008 - 6/30/2010
Task Order Type: (FFP or CPFF)	FFP, FP-LOE, CPFF
Purpose: (How this TO relates to NDBC's Mission or What Problem needs to be solved)	<p>Consistent with contract scope, to provide a NDBC/NWS/NOAA a vehicle to support the development of an Integrated Ocean Observing System, The purpose of this Task Order is to obtain a broad range of services and support for specific NDBC/NOAA Integrated Ocean Observation System (IOOS) projects.</p> <p>Support for IOOS key processes, subsystems and observation variables are required for NOAA to issue accurate and timely coastal inundation forecasts. Support to be provided to NOAA's National Ocean Service in planning for, acquiring and disseminating coastal zone information. Support will be provided to the National Weather Service (NWS) National Observing System (NOOS) Program to aid in NOAA's Integrated Ecosystem Analysis (IEA), and to provide comprehensive coastal inundations warnings and forecasts under the NOAA Programs of IOOS, LFW, and CEO.</p>
Background:	<p>This Task Order provides overarching support for the National and NOAA Integrated Ocean Observing System (IOOS) key elements, sub-systems, and observational variables. IOOS sub-systems supported are "Observations and the associated Data Assembly Center (DAC) Functions", the "Data Management and Communications (DMAC) Sub-system," and the "Modeling and Analysis Subsystem." Key observation IOOS variables are identified here in :</p>

Physical	Rank	Chemical	Rank	Biological	Rank
Salinity	1/1	Contaminants: water	9/8	Fish species	11/10
Water temperature	3/2	Dissolved nutrients	10/9	Fish abundance/biomass	12/11
Bathymetry	4/3	Dissolved oxygen	23/18	Zooplankton species	13/12
Sea level	5/4	Contaminants: sediments	26	Optical properties	14/13
Directional wave spectra	6/5	Carbon: total organic	32	Ocean color	19/15
Vector currents	7/6	Suspended sediments	34	Pathogens: water	22/17
Ice concentration	8/7	pCO ₂	40	Phytoplankton species	24/19
Surface heat flux	15/14	Carbon: total inorganic	42	Zooplankton abundance	25/20
Bottom characteristics	20/16	Total nitrogen: water	50	Benthic abundance	27
Sea floor seismicity	39			Benthic species	29
Ice thickness	46			Mammals: abundance	37
Sea surface height	51			Mammals: mortality events	38
				Bacterial biomass	47
				Chlorophyll-a	48
				Non-native species	52
				Phytoplankton abundance	53
				Phytoplankton productivity	56
				Wetland: spatial extent	58
				Bioacoustics	59

THE TOP 20 VARIABLES TWO RANKINGS ARE GIVEN: ORIGINAL RANK (NUMERATOR) AND RANK WITHOUT THE NON-OCEAN VARIABLES.

The NOS IOOS key elements supported under this Task Order:

The Office of Coast Survey's (OCS) streamlining and process improvement efforts have revealed the need for improved workflow analysis, documentation, and systems oversight for several key OCS function areas. Pursuing additional structure and objective tools in these areas will also be a first step in meeting ISO 9001 quality principles of process approach (with particular attention paid to system interfaces), systems approach to management, continual improvement, and a factual approach to decision making. OCS produces and maintains a suite of over 1000 nautical charts that cover the coastal waters of the U.S., the Great Lakes, and some U.S. territories. These charts, which are recognized as "official" by the U.S. Coast Guard, are produced in both paper and electronic format. OCS is responsible for acquiring hydrographic (depth and feature) data in U.S. waters in support of NOAA's nautical charting program. OCS establishes standards, creates project instructions, and evaluates the adequacy of survey data collected by field units.

OCS

The Coast Survey Development Laboratory (CSDL) explores, plans, and manages the development and improvement of charting, hydrographic, and oceanographic technologies and techniques used by OCS and NOAA to provide products and services for the coastal

	<p>marine community, especially in support of safe and efficient navigation and sustainable healthy coasts. The lab applies advanced techniques and technology to surveying, charting, and ocean and estuary hydrodynamic modeling requirements and initiates development programs necessary to meet those needs.</p> <p>CO-OPS provides hydrographic survey support to OCS by supplying input about vertical control requirements, tidal zoning schemes, and approved time-series water level data. NGS provides shoreline data of OCS survey areas, based on high resolution aerial photogrammetry.</p> <p>IOOS Program Office provides programmatic guidance for NOAA in developing the NOAA IOOS, the National IOOS, the ocean component of the Global Earth Observing System of Systems (GEOSS).</p>
Scope of Effort:	Provide as required by Task Order, Contract Line Item Support identified in the CLIN Task Order Statement.
Tasks:	As prescribed in the individual Task Order, Contract Line Item CLIN Task Order Statement.
Assumptions/ Constraints (Security, Safety, Accessibility, etc...)	NTSC shall have in place a safety and environment safety program (this function is covered under another Task Order). All work will be performed in compliance with applicable federal, state, local laws or regulations, NASA, NOAA, NWS, and ALL applicable NOS instructions, directives, or procedures.
GFE/GFI:	GFE/GFI is available to support this effort. The Government will make available computers, lab and office space as required. The OCS Quality Management team will actively participate and subject

	matter experts will be identified and made available.
Program Objectives/ Possible Performance Measures:	The Government requires this task order have performance-based measures that align with the Statement of Objectives and Program Goals contained in this solicitation. The contractor is required to provide a list of proposed measures for this task order with goals for level of service and the outcomes for achieving/not achieving those goals.
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Travel:	Travel may be required to support this task order.
Required information and/or submittals to be included in the required Task Management Plan (TMP):	<ol style="list-style-type: none"> 1. Task Management Plan and addendum for TO 36 is required showing a. A Clearly Defined Table of Deliverables for each CLIN with corresponding due dates. b. Work Breakdown Structure (WBS). c. Cost per Schedule of Supplies/Services and/or major components

Task Order Statement – TO36 CLIN 00001, IOOS-NOS BATHYMETRY AND
CHARTING ISO9000 COMPLIANT SUPPORT

Title of Task Order:	08-TOS-36 CLIN 00001 IOOS-NOS BATHYMETRY AND CHARTING ISO9000 COMPLIANT SUPPORT
NDBC Branch:	OPS 5X1 – NDBC/NOS Office Of Coast Survey Bathymetry Support
Performance Period:	7/01/2008 – 6/30/2010
Task Order Type: (FFP or CPFF)	FP-LOE
Purpose: (How this TO relates to NDBC's Mission or What Problem needs to be solved)	To provide support for Integrated Ocean Observing System (IOOS) key observing variable of Bathymetry. Bathymetry is prioritized as one of the top 20 IOOS required variables. Bathymetry is required for NOAA to issue accurate and timely coastal inundation forecasts. Support to be provided to NOAA's National Ocean Service in planning for, acquiring and disseminating and publishing Bathymetry and Charting Data in accordance with the principles of ISO 9001. Bathymetry is the physical ocean parameter complementing National Weather Service (NWS) National Observing System (NOOS) Program data to complete NOAA's Integrated Ecosystem Analysis (IEA), and to provide comprehensive coastal inundations warnings and forecasts under the NOAA Programs of IOOS, LFW, and CEO.
Background:	<p>The Office of Coast Survey's (OCS) streamlining and process improvement efforts have revealed the need for improved workflow analysis, documentation, and systems oversight for several key OCS function areas. Pursuing additional structure and objective tools in these areas will also be a first step in meeting ISO 9001 quality principles of process approach (with particular attention paid to system interfaces), systems approach to management, continual improvement, and a factual approach to decision making.</p> <p>OCS, a component of the National Oceanic and Atmospheric Administration's (NOAA) National Ocean Service, is known for the useful and necessary navigational products which are required for the safe and efficient maritime commerce in and out of our Nation's ports.</p> <p>OCS is composed of four Divisions: the Marine Chart Division (MCD), Hydrographic Surveys Division (HSD), Navigation Services Division (NSD), and the Coast Survey Development Laboratory (CSDL). Both MCD and HSD already have made</p>

significant progress in documenting their present workflow.

MCD is responsible for producing and maintaining a suite of over 1000 nautical charts that cover the coastal waters of the U.S., the Great Lakes, and some U.S. territories. These charts, which are recognized as "official" by the U.S. Coast Guard, are produced in both paper and electronic format.

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NSD provides a wide variety of navigation services to help insure safe and reliable marine transportation. Operating in a 365-days a-year environment, NSD Navigational Response Teams conduct short-term (fast response) hydrographic surveys in areas that need them most. NSD also has a group of nine Navigation Managers located at key coastal locations throughout the country. Navigation Managers serve as Coast Survey's ambassadors to the maritime community. NSD is also responsible for producing the U.S. Coast Pilot.

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OCS partners with other internal NOAA navigation services offices, including the Center for Operational Oceanographic Products and Services (CO-OPS) and the National Geodetic Survey (NGS). CO-OPS provides hydrographic survey support to OCS by supplying input about vertical control requirements, tidal zoning schemes, and approved time-series water level data. NGS provides shoreline data of OCS survey areas, based on high resolution aerial photogrammetry.

OCS maintains a workforce composed of approximately 225 full-time federal employees and 20 NOAA Corps Officers. The workforce is primarily made up cartographers, physical scientists,

	<p>computer specialists, and other support personnel. The majority of OCS personnel are located at NOAA headquarters in Silver Spring, Maryland. Branch offices, staffed with cartographers for reviewing hydrographic surveys, are located in Norfolk and Seattle.</p> <p>The OCS Web Pages can be found at: http://www.nauticalcharts.noaa.gov/</p>
Scope of Effort:	<p>Provide a road map and assistance to bring NOAA's Charting and Bathymetry into ISO 9001 compliant processing.</p> <ol style="list-style-type: none"> 1) analyze and document system-wide workflow, making use of existing legacy documents, 2) provide consultation and assistance in developing a plan for OCS to become ISO 9001 compliant, identifying key areas to prioritize, 3) provide cost estimate, when required, for executing the plan for OCS to become ISO 9001 compliant, and execute the plan as required, 4) develop or apply appropriate process oversight software tools to manage quality throughout OCS, and 5) identify dependencies and linkages to other navigation services NOAA internal partners and develop processes to manage the interface. <p>Scope of Task Order should address the topics and activities described in the technical "White Paper" (Attached) that discusses current ISO practices provided by the contractor to NOAA NOS Office of Coast Survey.</p>

Tasks:	<ol style="list-style-type: none"> 1) review system wide workflow making use of existing legacy documents and established government procedures (e.g., HR policies). Provide a gap analysis of workflow and business practices, 2) develop a phased approach plan to ISO 9001 certification with defined next tasks, which may include training, configuration management, etc. 3) provide cost estimate for OCS to become ISO 9001 compliant, 4) execute the plan, as required, 5) develop or apply appropriate process oversight software tools to manage quality throughout OCS, as required. 6) identify dependencies and linkages to other navigation services NOAA internal partners and develop processes to manage the interface, as required.
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Assumptions/ Constraints (Security, Safety, Accessibility, etc...)	NTSC shall have in place a safety and environment safety program (this function is covered under another Task Order). All work will be performed in compliance with applicable federal, state, local laws or regulations, NASA, NOAA, NWS, and ALL applicable NOS CSDL instructions, directives, or procedures.
GFE/GFI:	GFE/GFI is available to support this effort. The Government will make available computers, lab and office space as required. The OCS Quality Management team will actively participate and subject matter experts will be identified and made available.
Program Objectives/ Possible Performance Measures:	The Government requires this task order have performance-based measures that align with the Statement of Objectives and Program Goals contained in this solicitation. The contractor is required to provide a list of proposed measures for this task order with goals for level of service and the outcomes for achieving/not achieving those goals.
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Travel:	Travel may be required to support this task order.
Required information and/or submittals to be included in the required Task Management Plan (TMP):	<ol style="list-style-type: none">1. Task Management Plan addendum for TO 37 is required showing<ol style="list-style-type: none">a. A Clearly Defined Table of Deliverables with corresponding due dates.b. Work Breakdown Structure (WBS).c. Cost per Schedule of Supplies/Services and/or major components

ISO 9001 and Bathymetry – “White Paper”

Introduction

Science Applications International Corporation's (SAIC) has been a leader in the execution of vertical beam, side-scan, and sub-bottom surveys in shallow water and coastal areas worldwide for more than three decades. Since 1994 we have conducted hydrographic multibeam surveys covering over 7600 square kilometers of shallow coastal waters, and 600,000 square kilometers of deep water, primarily for the National Oceanic and Atmospheric Administration (NOAA).

SAIC is pleased to have the opportunity to present our capabilities to potentially support NOAA's Office of Coast Survey (OCS) in their streamlining and process improvement efforts. SAIC personnel who were involved in our internal efforts to refine our Quality Management System (QMS) and achieve ISO 9001 certification are available to assist OCS, with analysis and documentation of system wide workflow using existing documentation, providing consultation and assistance in developing a plan for OCS to become ISO 9001 compliant, and other associated tasking appropriate. The remainder of this paper describes SAIC's and specifically our Marine Science and Technology Division's (MSTD) experience in the development of an ISO registered QMS associated with the development and integration of hydrographic survey systems and software, and the conduct of hydrographic surveys.

SAIC/MSTD offers a comprehensive capability in both design and integration of complex survey systems, as well as applying those systems to detailed survey requirements in the United States and around the world. SAIC's experience demonstrates that our technology and procedures are compliant with current US government hydrographic survey specifications. SAIC has continually modified our procedures for these surveys as appropriate, to reflect: lessons learned, upgrades to sensors and systems, operational changes designed to increase efficiency, additional efforts to support tides and water level measurements, and site-specific changes required for new survey areas.

SAIC's Quality Management System and Registration

Recognizing the need for an overarching Quality Management System to support SAIC/MSTD business efforts, in 1997 we embarked on the task of documenting and refining our QMS, and implementing the processes and procedures required to achieve ISO 9001 registration. MSTD was first registered under the ISO 9001:1994 standard in December of 1998 and completed the upgrade to the ISO 9001:2000 quality standard in July of 2003. Since that time, we have successfully completed seven surveillance audits, one top-to-bottom recertification audit and numerous internal audits. The last three surveillance audits were completed with no nonconformities noted.

The SAIC Quality Management System is built around a hybrid model that combines the principles of the Shewart approach of Plan-Do-Check-Act (PDCA) and the SEI IDEAL approach, Initiating-Diagnosing-Establishing-Acting-Learning. The resulting hybrid model combines the process of the PDCA approach where each process is compared with its attendant requirements and gaps are detected, resolved, and evaluated with the cyclical approach of the IDEAL model where the learning phase of one cycle is followed by the diagnosing phase of the next cycle, thus insuring continual improvement.

SAIC has invested a great deal of time, effort, and resources in creating a Quality System that has proven to be both effective and adaptable. Our QMS is focused on our customers' requirements and ensures our ability to react to emerging requirements as well as unforeseen challenges encountered in a highly dynamic surveying environment. We believe that we have benefited greatly from our ISO 9001 quality system which forces a continual examination of our engineering and production processes and allows us to produce the best product at the most competitive price possible. Our aggressive program of process-based, internal audits and preventive action results in the elimination of most production defects before they occur. SAIC has committed itself to the full implementation of the ISO 9001 standard and its emphasis on continual and measurable process improvement.

As measurements of the performance of our quality system, MSTD not only monitors internal adherence to QMS processes through internal audits, but also gathers information relating to customer perceptions as to whether MSTD has met customer requirements. The methods for obtaining and using this information include, but are not limited to:

- Formal customer surveys using the SAIC Client Assessment Survey
- Customer comments logged into the SAIC public website
- Formal, customer sponsored project reviews
- Customer complaints and kudos
- Routine, informal telephone or email communications

A key concept of SAIC's QMS system is a centralized Web Based architecture for easy access by all employees to all pertinent documents, procedures, and databases required to conduct contract efforts for Hydrographic Survey, Hydrographic Survey System Development, and other business endeavors as required. Figure 1 depicts SAIC/MSTD's internal QMS website, which provides all employees with access to QMS documentation. Examples of resources found in this one centralized location are:

- The Quality System Manual
- Quality System Training
- Schedule of Audits (both internal and external)
- Audit Results
- System Trouble Reports
- Equipment Calibrations Reports

SAIC/MSTD QMS encompasses all aspects of Hydrographic Survey, from the proposal phase through the data archival phase. Table 1, presented below, provides a brief overview of some of the components of the QMS as related to the conduct of Hydrographic Survey operations conducted by MSTD. Table 2 presents the Table of Contents for MSTD's Quality Management System.

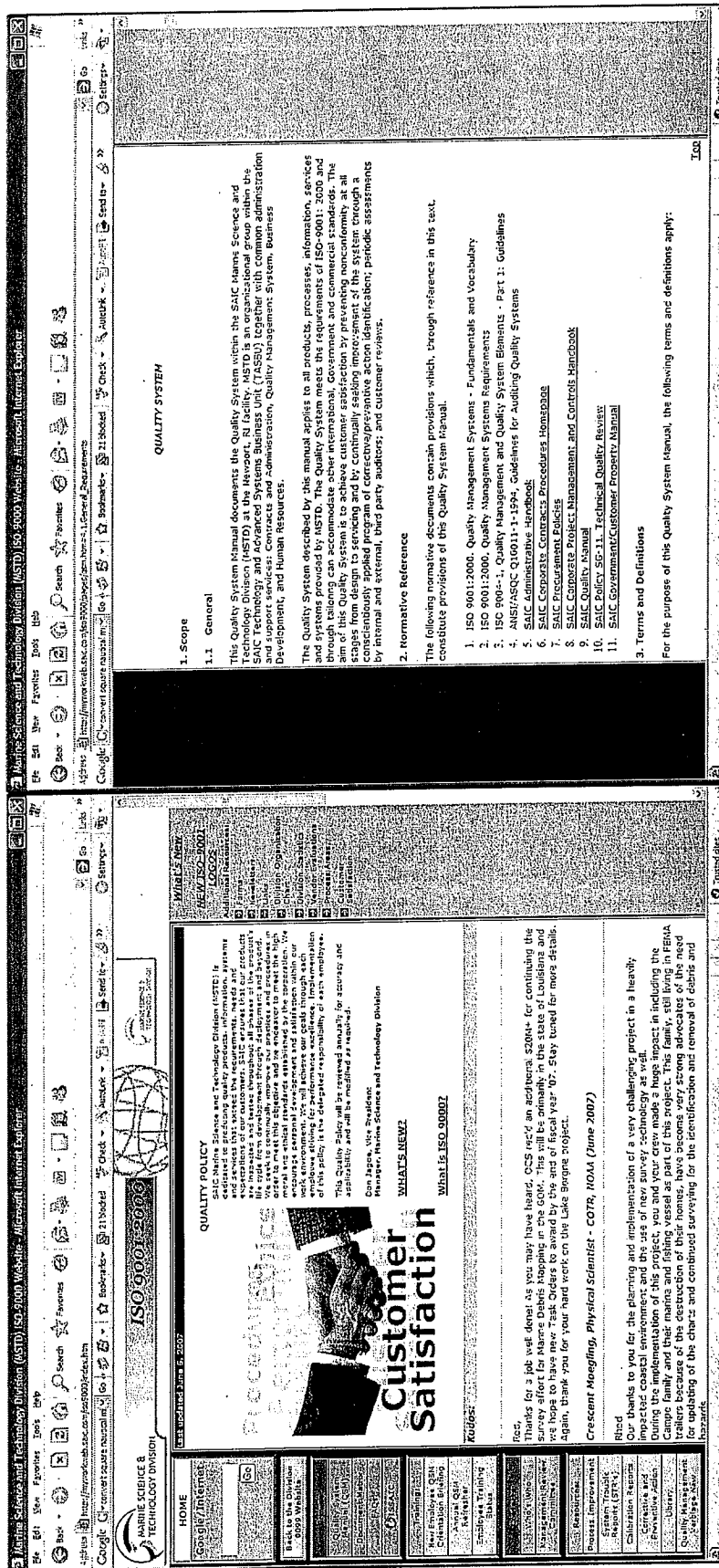


Figure 1. SAIC/MSTD Internal Quality Management System Web Site

Table 1. SAIC/MSTD's QMS as applied to Hydrographic Survey

- **Management and Planning**
 - Proposal Phase
 - Technical Red Team Reviews and Fixed Price Review Boards
 - Technical, Contractual, and Schedule Compliance with RFP Requirements
 - Program Plan, Schedule, and Resource Loaded Networks
 - Assumptions and Exceptions
 - Subcontractor Capabilities, Statement of Work, and Risk
 - Program Risk Management
 - Contract Phase
 - Contract Kick Off Review
 - Earned Value Management
 - Bi-Weekly Status Reports to COTR
 - Monthly Status Reporting
 - Periodic Corporate Program Reviews
- **Hydrographic Systems Integration**
 - Systems Engineering Approach
 - Requirements Review at Proposal Phase
 - Hardware and Software Design/Development
 - Factory Acceptance Test
 - Problem Identification/Tracking/Resolution
 - System Trouble Report (STR) Database
 - Corrective and Preventative Action (CPAR)
- **Hydrographic Survey Mobilization**
 - System Acceptance Testing
 - Dockside Testing
 - At Sea Testing
 - Survey Readiness Review
- **Hydrographic Survey Operations**
 - Crew Make-up/Responsibilities
 - Surveyors/Watchstanders: Data Acquisition, Data Processing
 - Lead Hydrographer: Data Quality, Survey Management and Progress Tracking
 - Data Monitoring Software Modules and Processes
 - Watchstander Checklists
 - On Line Procedural Documentation
 - Watchstander Rotation ("process what you collect")
 - Daily Progress Reports and Routine Data Transmittals
- **Data Processing and Deliverables**
 - Detailed review of new SOW and NOS Specifications and Deliverables (S&D) to determine changes from previous Task Orders
 - Processing steps are mapped to deliverable requirements in the SOW and NOS Specifications and Deliverables
 - Detailed checklists and processing logs with sign-off for documenting processing steps performed
 - Frequent Quality Control steps built into processing pipeline
 - Tracking labor for each processing step to identify processing steps to focus on making efficiency improvements
- **QMS Audits**
 - Periodic Client Assessments conducted by Sr. Level Management
 - Internal Audits
 - External Surveillance Audits

Table 2. Quality Manual Table of Contents

- 1. Scope
- 2. Normative Reference
- 3. Terms and Definitions
- 4. Quality Management System
 - 4.1 General Requirements
 - 4.2 Documentation Requirements
 - 4.2.1 General
 - 4.2.2 Quality Manual
 - 4.2.3 Control of Documents
 - 4.2.4 Control of Records
- 5. Management Responsibility
 - 5.1 Management Commitment
 - 5.2 Customer Focus
 - 5.3 Quality Policy
 - 5.4 Planning
 - 5.4.1 Quality Objectives
 - 5.4.2 Quality Management System Planning
 - 5.5 Responsibility, Authority and Communication
 - 5.5.1 Responsibility and Authority
 - 5.5.2 Management Representative
 - 5.5.3 Internal Communication
 - 5.6 Management Review
 - 5.6.1 General
 - 5.6.2 Review Input
 - 5.6.3 Review Output
- 6. Resource Management
 - 6.1 Provision of Resources
 - 6.2 Human Resources
 - 6.2.1 General
 - 6.2.2 Competence, Awareness and Training
 - 6.3 Infrastructure
 - 6.4 Work Environment
- 7. Product Realization
 - 7.1 Planning of Product Realization
 - 7.2 Customer-Related Processes
 - 7.2.1 Determination of Requirements Related to the Product
 - 7.2.2 Review of Requirements Related to the Product
 - 7.2.3 Customer Communication
 - 7.3 Design and Development
 - 7.3.1 Design and Development Planning
 - 7.3.2 Design and Development Inputs
 - 7.3.3 Design and Development Outputs
 - 7.3.4 Design and Development Review
 - 7.3.5 Design and Development Verification
 - 7.3.6 Design and Development Validation
 - 7.3.7 Control of Design and Development Changes
 - 7.4 Purchasing
 - 7.4.1 Purchasing Process
 - 7.4.2 Purchasing Information
 - 7.4.3 Verification of Purchased Product
 - 7.5 Production and Service Provision
 - 7.5.1 Control of Production and Service Provision
 - 7.5.2 Validation of Processes for Production and Service Provision
 - 7.5.3 Identification and Traceability
 - 7.5.4 Customer Property
 - 7.5.5 Preservation of Product
 - 7.6 Control of Monitoring and Measuring Devices
- 8. Measurement, Analysis and Improvement
 - 8.1 General
 - 8.2 Monitoring and Measurement
 - 8.2.1 Customer Satisfaction
 - 8.2.2 Internal Audit
 - 8.2.3 Monitoring and Measurement of Processes
 - 8.2.4 Monitoring and Measurement of Product
 - 8.3 Control of Nonconforming Product
 - 8.4 Analysis of Data
 - 8.5 Improvement
 - 8.5.1 Continual Improvement
 - 8.5.2 Corrective Action
 - 8.5.3 Preventive Action

Approach to Process Improvement and ISO Certification

The process of obtaining ISO 9001 registration typically takes from 12 to 24 months to accomplish and is dependent on the effectiveness and maturity of the already in place policies and procedures of the organization. Most organizations will already have many of the required procedures already documented and the major tasks remaining to be accomplished would include collecting and tailoring the existing procedures in accordance with the ISO 9001 standard and filling in any gaps in the documentation that may exist. Most organizations typically will benefit from obtaining a pre-assessment evaluation audit performed by the prospective registrar. This audit should be performed 6-9 months prior to the first registration audit and will serve to uncover any missing documentation as well as to highlight any nonconformities that may exist between the documented procedures and policies and their actual implementation. The actual registration audit should take place 6-9 months following the initial assessment audit. This time will be spent filling in any gaps identified in the pre-assessment audit and to allow sufficient time for the Quality Management System to function normally and to collect metrics with which to evaluate the effectiveness of the system. It is important to remember that the registration auditor will be looking not only at the documented quality management system but will also be evaluating its implementation and effectiveness.

The process of developing an ISO 9001 compliant quality management system can be broken down into seven stages:

1. Design the QMS: Appoint an ISO Management Representative and give him or her the authority necessary to effectively implement the QMS. Appoint a Quality Management Review Committee.
2. Document the QMS: Create the master Quality Manual in accordance with the ISO standard and create all supporting documentation, procedures, and work instructions required to effectively implement the system.
3. Implement the QMS: Publish the quality manual. Insure that all members of the organization are indoctrinated into the requirements of the QMS and insure that all required quality management resources are made available.
4. Support the QMS: Implement a comprehensive program of internal audits designed to uncover any existing or potential nonconformities. Convene periodic meetings of the Quality Management Review Committee in order to evaluate the program.
5. Monitor the QMS: Identify, collect, and analyze performance metrics that can be used to evaluate the effectiveness of the organizations processes.
6. Control the QMS: implement a comprehensive configuration management program to insure that only the most up-to-date quality documents are available for distribution.
7. Improve the QMS: Combine data from internal audits, customer feedback surveys, quality management review committee meetings, and other process-specific metrics to evaluate the effectiveness of the quality management system. Examine quality trends and implement additional procedures if necessary to insure that quality moves in a positive direction.

SAIC's approach would include the following key steps with cognizant OCS personnel:

- Meet and discuss the "road ahead" towards certification.
- Assist in setting major goals and milestones. Assist in putting a Plan of Actions and Milestones together.
- Review current OCS relevant documentation and processes.
- Visit field activities for processes currently in practice.
- Assist in the establishment of a QMS/ISO Website within OCS. Judicious re-use of our existing site would be acceptable and encouraged at no cost.
- Conduct a review of the post-acquisition data pipeline and specifications and deliverables for inclusion into a QMS based around ISO-9001:2000.
- Hold/moderate (as desired) meetings with the OCS QMS Team to monitor progress.
- Provide pre-assessment coaching and conduct a mock assessment.
- Other initiatives as desired by OCS.

SAIC firmly believes that there is tremendous wisdom in having someone coach the ISO Team through this rigorous and somewhat arcane process. There is simply no doubt that any organization that

conducts the business of hydrographic and marine survey will greatly benefit from the rigor of ISO-9001:2000, but getting to Certification requires teamwork, dedication and mentoring. It would be our pleasure to assist a valued customer and partner in this process.

MSTD Key Personnel

Key members of SAIC/MSTD's team available to support OCS process improvement efforts include: Mr. Walter Simmons, Mr. Gary Paquette, and Ms. Lisa Infantino. A brief resume of their experience as related to this effort is provided below.

Walter Simmons, CAPT, NOAA (Ret.) is an ACSM Certified Hydrographer (inshore and offshore), with over 44 years experience in hydrographic, geodetic, and photogrammetric surveying, mapping and charting. Mr. Simmons has been an SAIC employee since 1994. He has more than 13 years experience in surveying using shallow water and deep water multibeam and side scan sonar systems and interpreting the data. Mr. Simmons has mobilized, installed, integrated, and calibrated hydrographic data acquisition and processing systems, and has installed and operated water level gauges, computed tidal datum from water level records, computed water level zoning for correction to soundings and for tide coordinating aerial photography for shoreline mapping. Mr. Simmons has written specifications, project instructions, and operations manuals and trained staff in hydrographic, geodetic, and photogrammetric surveying, mapping and charting.

Mr. Gary Paquette has been a Staff Engineer with SAIC since 1980. During his tenure with SAIC, he has participated in virtually every type of oceanographic program including dredge material disposal studies, deep ocean mooring deployment, biological and chemical sampling, research diving, and both single-beam and multibeam hydrographic surveying. Mr. Paquette assumed the duties of ISO 9001 Management Representative in 2000 and since that time has been responsible for all aspects of the SAIC Quality Management System. Mr. Paquette has successfully completed more than nine surveillance audits, three top-to-bottom re-certification audits and numerous internal audits both as an auditor and auditee. Mr. Paquette created and maintains the MSTD Quality Management intranet website which is the backbone of MSTD's quality system. Mr. Paquette completed a comprehensive course in process-based internal auditing presented by the Stat-A-Matrix Institute in 2001.

Ms. Lisa Infantino has been at SAIC since 1998, and provides a broad range of data processing, technical writing, software testing and Quality Assurance support to the Marine Science and Technology Division in Newport, RI. Ms. Infantino was co-lead for MSTD's CMMI certification effort and was instrumental in the division achieving its goal of a CMMI Maturity Level 2/Capability Level 3 certification for the ISS-60 (the Naval Oceanographic Office, NAVOCEANO's Integrated Survey System Software) project in 2005. She is currently the division's CMMI Process Manager, the Process Area Lead for the Product and Process Quality Assurance process area, and the principal internal CMMI auditor. She is also responsible for process improvement planning and implementation efforts on the ISS-60 project. She has participated in many of MSTD's hydrographic surveys for NOAA. She has assisted with post-collection data processing on a variety of different surveys, including hydrographic and geophysical missions. Ms. Infantino has been responsible for the production of final survey deliverables for multiple contracts, including electronic data, marine hydrographic and cable alignment charts, web-delivered documentation, and final survey reports.

Contract No.: QA1330-05-CQ-1035 / Task Order No.: Task Order 36 - Sterling Field Support Center
Offeror: Science Applications International Corporation - TSC (Co 6)
Proposal No.: Task Order 36 - Sterling Field Support Center
Proposal Title: Technical Support Services for the Sterling Field Support Center - OPS 22/OPS52
Period of Performance: All Periods (01 Jul 07 - 30 Jun 08)



Contract No.: QA1330-05-CQ-1035 / Task Order No.: Task Order 36 - Sterling Field Support Center
Offeror: Science Applications International Corporation - TSC (Co 6)
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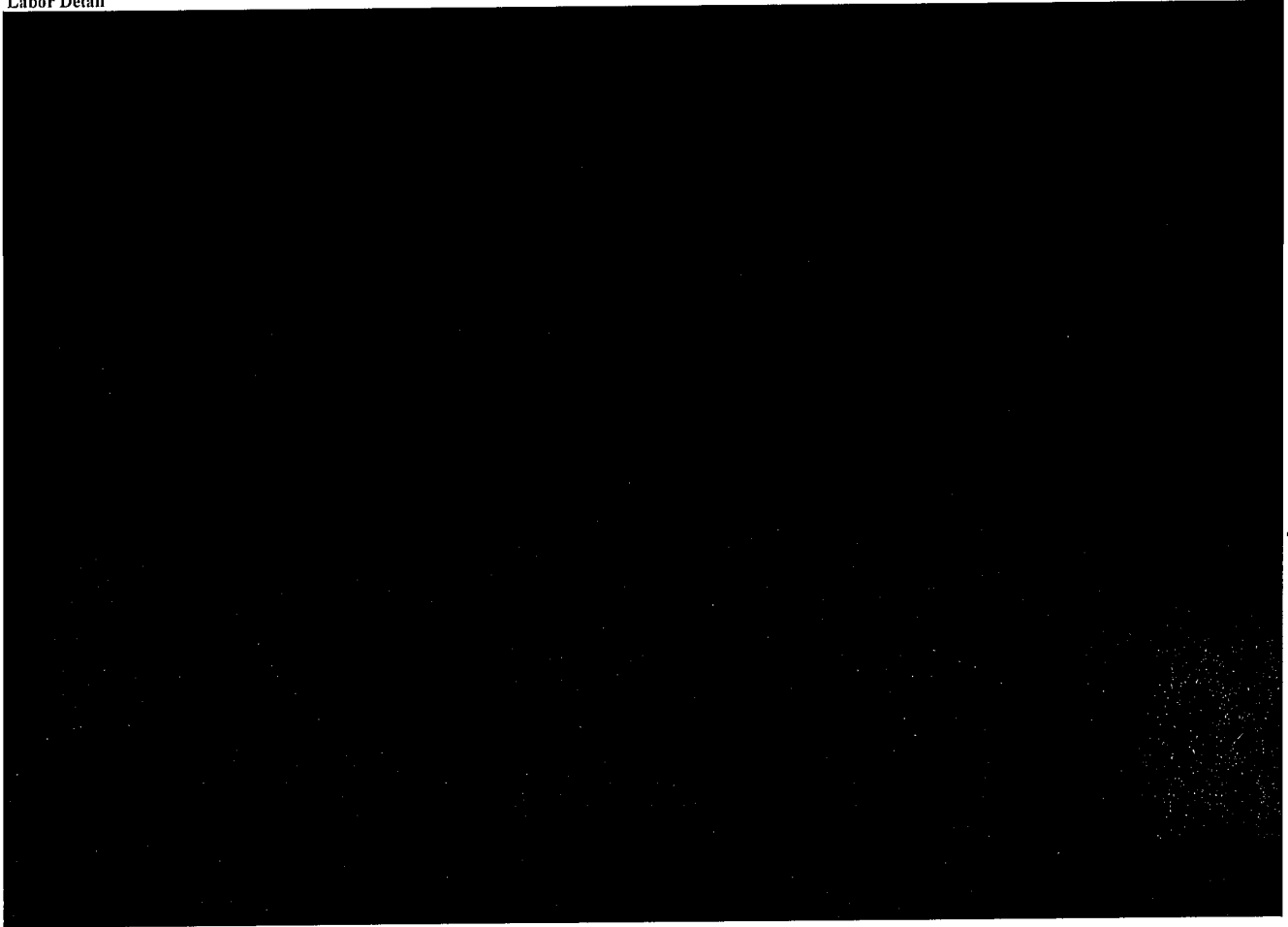
Labor Detail



Contract No.: QA1330-05-CQ-1035 / Task Order No.: Task Order 36 - Sterling Field Support Center
Offeror: Science Applications International Corporation - TSC (Co 6)
Proposal No.: Task Order 36 - Sterling Field Support Center
Proposal Title: Technical Support Services for the Sterling Field Support Center - OPS 22/OPSS2
Period of Performance: 1st Quarter (01 Jul 07 - 30 Sep 07)

FFP

Labor Detail



Contract No.: QAI330-05-CQ-1035 / Task Order No.: Task Order 36 - Sterling Field Support Center
Offeror: Science Applications International Corporation - TSC (Co 6)
Proposal No.: Task Order 36 - Sterling Field Support Center
Proposal Title: Technical Support Services for the Sterling Field Support Center - OPS 22/OPS52
Period of Performance: 2nd Quarter (01 Oct 07 - 31 Dec 07)

FFP

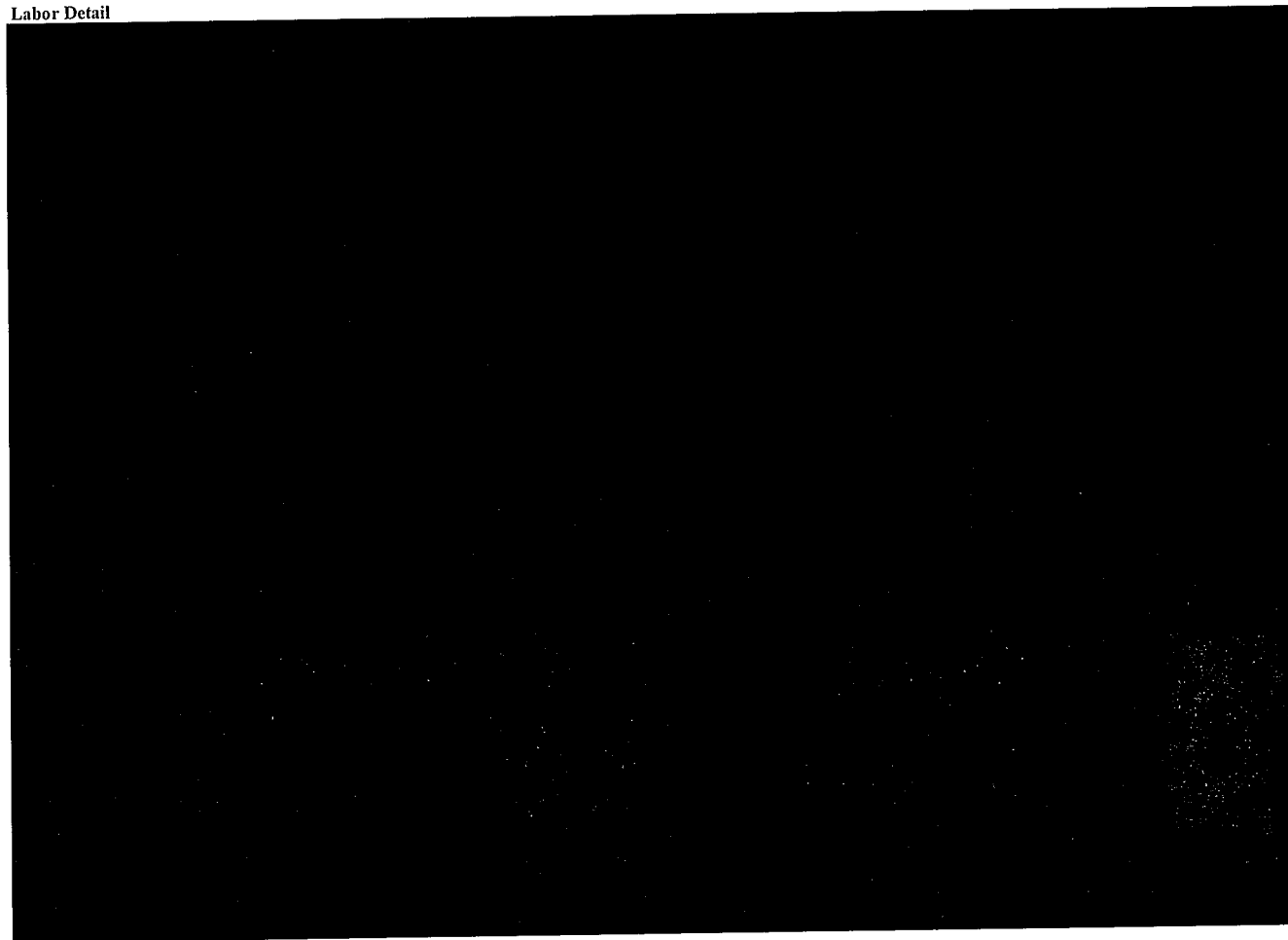
Labor Detail



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Offeror: Science Applications International Corporation - TSC (Co 6)
Proposal No.: Task Order 36 - Sterling Field Support Center
Proposal Title: Technical Support Services for the Sterling Field Support Center - OPS 22/OPS52
Period of Performance: 3rd Quarter (01 Jan 08 - 31 Mar 08)

FFP

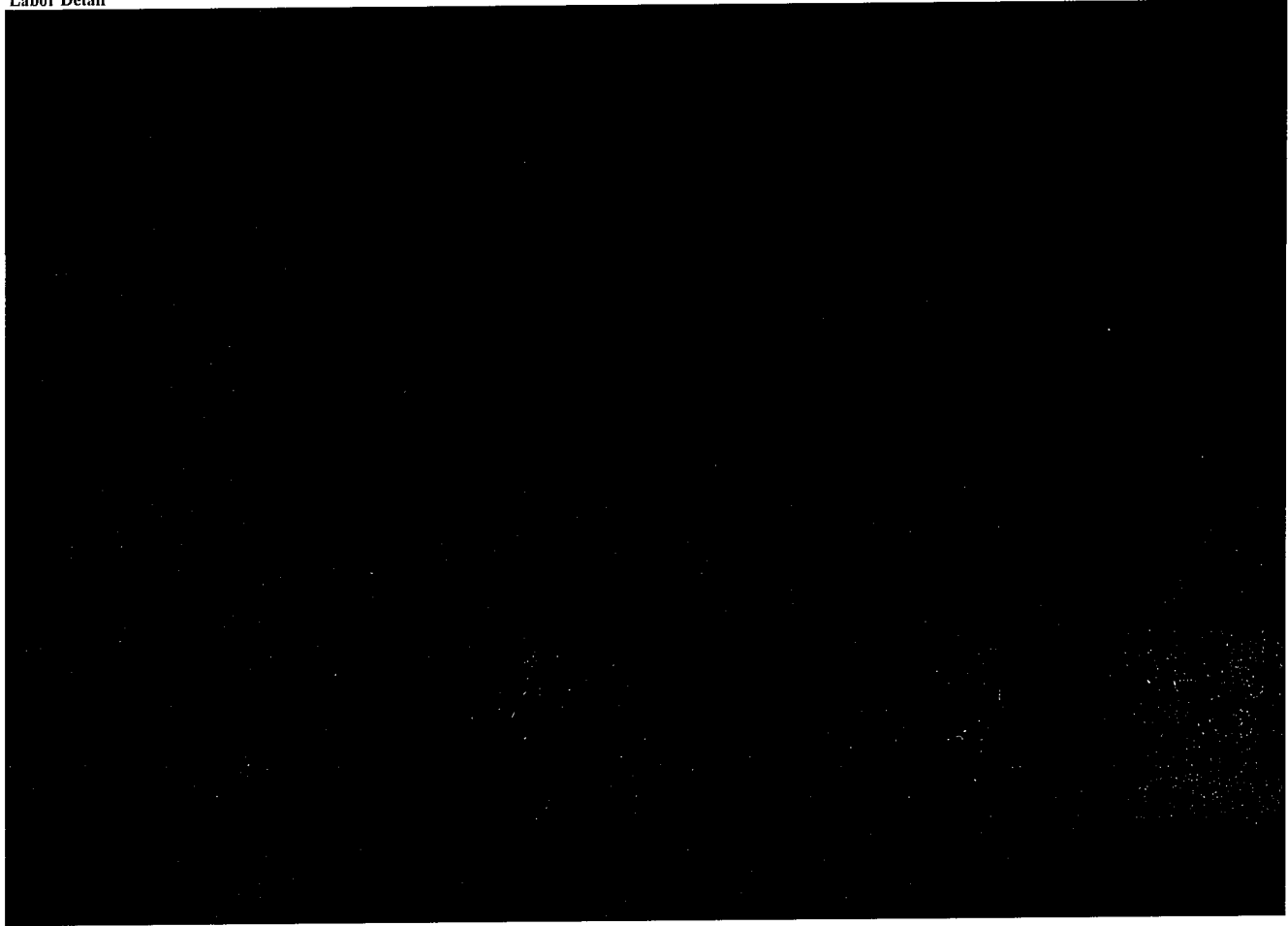
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Offeror: Science Applications International Corporation - TSC (Co 6)
Proposal No.: Task Order 36 - Sterling Field Support Center
Proposal Title: Technical Support Services for the Sterling Field Support Center - OPS 22/OPS52
Period of Performance: 4th Quarter (01 Apr 08 - 30 Jun 08)

FFP

Labor Detail



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Period of Performance: All Periods (01 Jul 07 - 30 Jun 08)

CPFF

Labor Detail



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Proposal No.: Task Order 36 - Sterling Field Support Center
Proposal Title: Technical Support Services for the Sterling Field Support Center - OPS 22/OPS52
Period of Performance: 1st Quarter (01 Jul 07 - 30 Sep 07)

CPFF

Labor Detail



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Period of Performance: 2nd Quarter (01 Oct 07 - 31 Dec 07)

CPFF

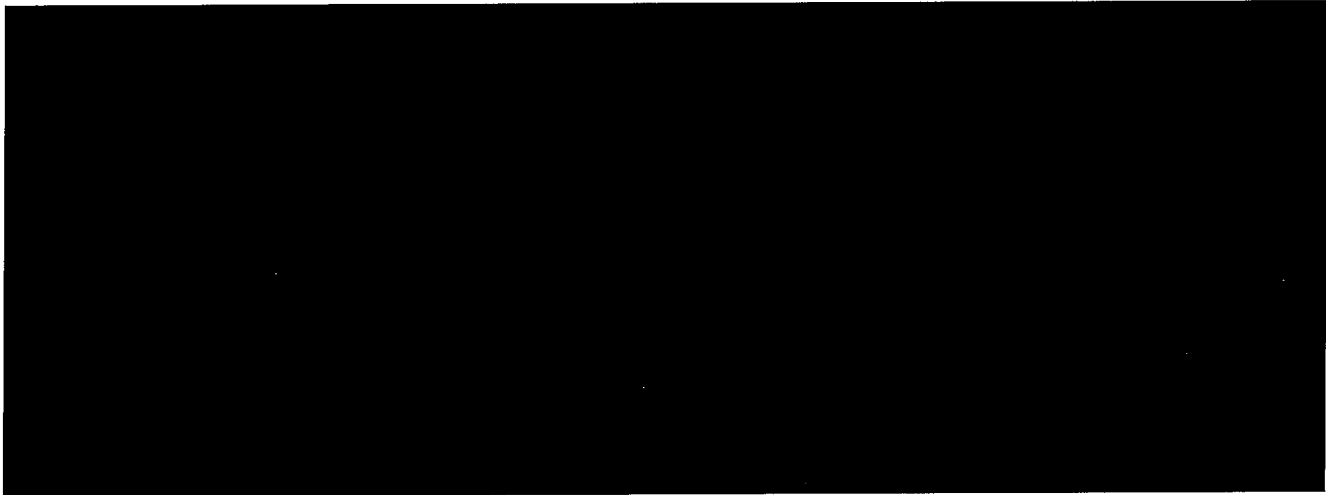
Labor Detail



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Period of Performance: All Periods (01 Jul 07 - 30 Jun 08)

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Subtotal



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CPFF

Subtotal



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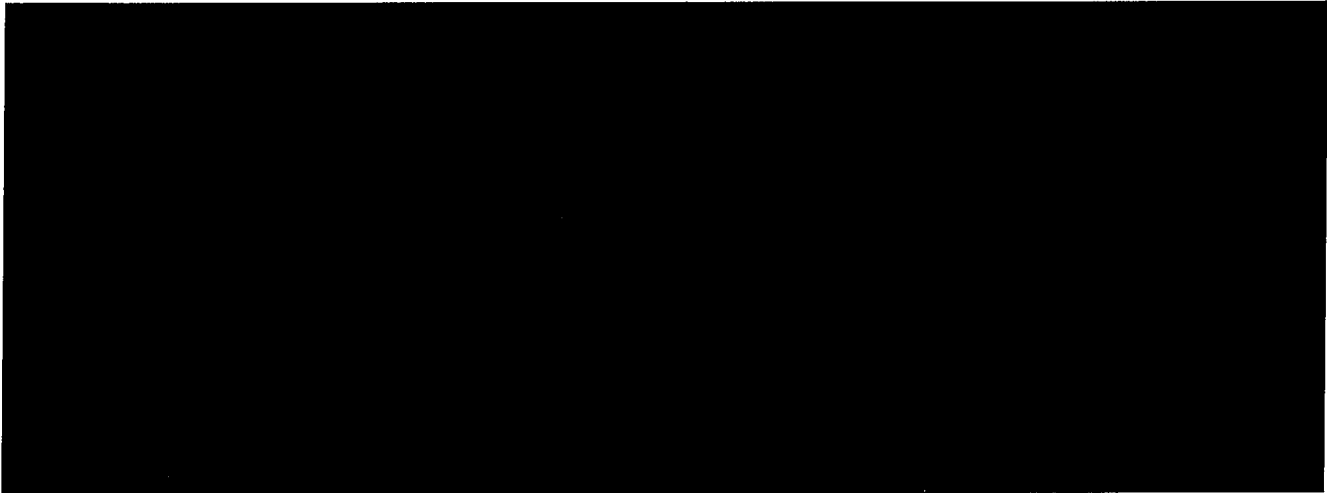
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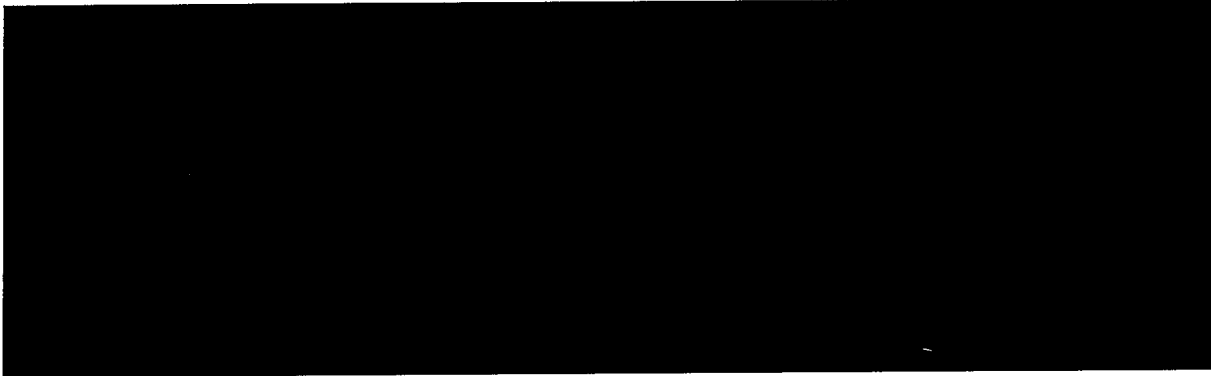
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Other Direct Costs (ODCs)

Ref No.:	Item Description	Qty	Unit Measure	Unit Price	Ext. Price
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Contract No.: QA1330-05-CQ-1035 / Task Order No. Task Order 36 - Sterling Field Support Center
Offeror: Science Applications International Corporation - 75C (Co 6)
Proposal No.: Task Order 36 - Sterling Field Support Center
Proposal Title: Technical Support Services for the Sterling Field Support Center - OPS 22/OPS52
Period of Performance: 01 Jul 07 - 30 Jun 08

Travel Detail

Ref No.	Origin	Destination	Purpose	Number of					Airfare ³	Per Diem Rates ⁴		Rad Trip	Airfare Total	Travel Ticketing ⁵	Per Diem Total		Rental ⁷	POV ⁸	Other Exp ⁶	Subtotal Cost	Escal ¹¹	Subtotal Cost					
				T	P	N	D	A		Loc ²	Unit Rate				Lodging	M&IE							Lodging	M&IE ⁹	Car	Miles	Parking ⁹

